Approved For Release 2009/10/26: CIA-RDP89B00708R000500140021-7 Colonel F. E. Oder Ballistic Missile Division NRO Review Completed. Dear Fritz: The filled Ottos SECTIONS EXEIN THE SKY PIE IN THE SKY VERSUS On taking this method of transmitting to you of preliminary thinking in matters affecting the SAMOS Program. Fam sending this to you in a letter which I myself signed, simultaneously enables me to be informal and to take the entire responsibility Judgements, opinions, and related matters in the material that "On the other hand, I would be less than fair in not indicating that all of follows. is of my own views developed slowly, olombly over the this represents the s the views of the callagues in those It includes a necessity these matters, which, are competent years as well-paid. As I think over the things we have talked about, the things I have DANCE DULLANY been saying and the sorts of things I am going to recommend, I find much repetition the reports of the 117 between these things and the matters discussed and written at length in this Special Studies Committee, 117-I. This brings up a point which I will not make later and which I insert parenthetically at this point; This committee constitutes a XXXXXXXX resource of talent and interest which has not been fully exploited by USAF. method must be found to integrate this committee emotionally into the satellite program. Rosten to
I distinguish these remarks between the abilities and competence of the members activities of the of this group and the group as a whole from the numerous other that diverstonery, part time advisors, volkintary and appointed, from whom you have been afflicted and by whom you have been affected. This leads me to my first informal comment having to do with the real nature of this program and its management. For numbrous valid and peculiar reasons, it has been hard to properly XX view the satellite effort at BMD. You are not and have not been running a research organization, a requirements organization, a laboratory, or a study effort. You have been heading a project office devoted to what is in effect

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a production program. The result of your actions to get the satellite off the ground and up in the sky where it belongs coupled with the necessary security measures, the novelty of the system and other factors have resulted in a lack of an R and D Program of follow on systems, a lack of real participation by those elements of the Air Force which at least used to be capable in the past of conducting the R and D necessary to furnish a basis for follow-on programs. They this despite the nominal participation by NADD. WEXEXPERT

As a result of these factors when we look at your pitifully small office, we see

you interposed between a vast signature, caramrous, hungry industry numbering upwards of
giguntic,
10,000 people - this or one side of your and the thousand of your is a vast, clamrous,
gigantic, group of military officials, civilian officials, voluntary advisors, and bitty
numerous levels of the government. Some times I wonder who is really steering,
if anybody. It is abundantly clear that it is extremely difficult for your small
office to control with direct for your small control of your small office to control with direct for your small that we wast industry wordward,
that we have the property of the your small office to control with the year industry wordward,

You will recall that on May 24, last, we delivered to you an extremely informal letter giving MMY my very first thoughts about how to think about the current crisis and opportunity in SAMOS. Just for the record, we are sending you that as an official

This particular letter will profere the lengthy and rambling; the benefits, however, will let you see how our thought has developed and within what spirit we approached the problem at hand. What is the problem?

THE PROBLEM:

We see the major problem INXI in two parts (1) helping the United States get significant, useful, and timely photographs over important and otherwise inaccessible areas as soon as possible

(2) We see the other half of the problem as that of helping BMD comply with the spirit, DUD direction, orders and priorities from billings at the BMD level Charyk at USAF and others:



(4): Within the SAMOS structure (XXX)

(b) Outside the KKKKK SAMOS Atructure it is necessary and/or desirable.

ASSUMPTIONS -, PROMISES AND ANALYSIS OF THE PROBLEM

ASSUMPTIONS, PROMISES AND ANALYSIS OF THE PROBLEM



In order that you can clearly see and evaluate the advice and recommendations which we are slowly but surely leading up to it is only fair to both of us that we display in clear, albeit, arguable form our analysis of the KKXXXX dilemma and the problem (2) our intrepretation of the needs, guidelines, directovices and (3) our evaluation of the opportunities we have forms.

ANALYSIS OF DILEMMA

Here's how the current situation looks to many people: We have spent close to a billion dollars on a system which has not yet delivered. The essential characteristics of this system are characterized by the word "readout". Read-out is considered by most people who have their hands on the financial throttle as being a poor system when compared to recovery systems. The argument is extraordinarily simple.

Recovery systems can deliver much more data in a short period than can readout systems.

The history is really simple and has been summarized previously and elsewhere in several RAND reports. It is however worth repeating from the Claufy our assumptions. The readout systems and body in SAMOS are dirivatives in spirit and MAX philosophy from the original RAND satellite recommendations, which was MAXANN constrained by two important factors. First, the absence of ICEM Program, First, the RAND work to consider the design and development of a booster specifically for the reconnaissance satellite. This implied expensive boosters and booster scarsity. Both of these points made for long life requirements on orbit. Second, and at least physical as important as the first, dismissial of re-entry or/recovery of data in the early work. Seconds of Clie luminous difficulty of Mently, there was an important constraint INXXXXX affecting decisions to proceed on ICEM's

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Apart from this wery fundamental point, there is also the other important point that SAMOS as it has developed is an extraordinarily complicated, complex, marginal, sensitive, and elegant system reflecting in many of its components not only the highest states-of-the-art but states-of-the-art which have not yet been reached. careful & sober Many people looking carefully and soberly at the SAMOS program are horrified, not only by what they see in terms of complexity piled upon complexity but are horrified at the notion that this was intended to be our first reconnaissance satellite. the feeling that we are orbiting before we are walking. "And there is the matter of The SAMOS Program, now approaching the billion dollar mark, can be compared with other projects. Hoover Dam, a mighty monument to man's engineering abilities, nuclien dallars. strength, and technology cost start to stop of the order of 180,000,000. The other day I learned that the entire cost of the St. Lawrence Sea Way, a gigantic project mellindallas. of the 1950's was approximately 400,000,000., and to bring the matter even closer million dollars 2000 (this is the RCA costs: 3 birds and the TIROS Program cost approximately 12,000 ground receiving equipment). How much of what I have just said in the line of historical made above are remarks de found in several RAND publications which I will not now bother referencing; the other remarks can be found in a careful perasul of the llg-L Advisory Committee reports; much of the evaluation and hard-nosed remarks I am sure you have heard and will likely continue to hear at various points, upwards and onwards the chain of command and control (n your project and your funds, This then is a quick statement of the dilemma-



ALBERT DIRECTIONS ORDERE

nellerre the (emerginal of recovery/as a dominant technique for getting data back, the classid or original SAMOS suddenly found itself being touted as a surveillance It would seem apparent that a television type system on orbit was limited data delivery per-day might be useful for a tena ive coverage, for studying the dynamics of acrial Soviet operations, for looking at things which require short intervals between looks WIX for full appreciation, etc. Now, although some of these notions were in the original SAMOS concept, they are not emphasized as much as they had to be at this stage of the game. \mathcal{A} In other words, classic SAMOS to recovery with respect to production of to handle or produce large amounts of data and therefore had to find a new niche for itself. "This is all very interesting and many people, especially the writer have insisted on the complementary nature of the two kinds of satellites and have insisted they are not really competitive. $\cancel{\square}$ However, two novel factors present themselves at this time and really upset the apple cart. First, and probably dominent is the fact that nobody, but nobody, really understands surveillance - how to do it, why to do it, its importance, real requirements for it, etc. This is a basic point, one which has already run through the entire SAMOS program and which will continue to be an open question for a long time to come. The reason why it will continue so this question cannot be answered by clever or contractor facile studies, YEER reports, conjectures, and the like. It can only be answered The problem is how do we get around to do it if XXXXX its ultimate by doing if The possible cancellation of the only method utility is questioned to begin with, That is one aspect of the problem do surveillance. indeed available to of surveillance and SAMOS. The other fundamental aspect is that it seems to be extremely difficult to conduct the modest R and D program devoted to exploration and study and development of surveillance philosophy, techniques, and technology: It just seems to cost too much the way things are going. The result again is that when those men of conscience who are also somehow responsible for dispensing money

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for this program are forced to choose between their natural scientific inclination to explore and study surveillance systems and between this fact and their excessive for a massive constitution of cancellation altogether.

The dele Approved For Release 2009/10/26: CIA-RDP89B00708R000500140021-7; inuch want and it fine on the wing system of that we are asking the same people. It perform a massive fix in a kurry.

The data handling system. I think that dollar for dollar, sub-system for sub-system, the data handling system. I think that dollar for dollar, sub-system for sub-system, so since people per square organization than any other single feature of the program. This has rightly or wrongly represented plushness, fancy living, extraordinary complexity elaboration beyond necessity, etc., etc., This was a summary of the street of the same of the sub-system of the summary of the same of the

INTERPRETATION OF NEEDS, CUIDELINES, DIRECTIVES, ORDERS
INTERPRETATION OF NEEDS, ENXXXXXXXXXXXXX GUIDELINES, DIRECTIVES, ORDERS, ETC.

about this program, having heard these in meetings, prior conversations, and briefings, extending over a considerable period. There is therefore no need to repeat these remarks in this letter. We have found it desirable and necessary to try to state a few guiding principles for ourselves in conducting our current look at SAMOS for you.

Therefore no need to repeat these remarks in this letter. We have found it desirable and necessary to try to state a few guiding principles for ourselves in conducting our current look at SAMOS for you.

Therefore no need to repeat these remarks in this letter, we have a same than a deferred demonstration that is better than a deferred demonstration two, simplicity as preferable to elegance. Three, recovery is more important than readout. Four, backup to existing programs, is more important than parallel development of the same kind of systems. Five, relatively long term R and D programs for next your backup to systems make sense only if they follow soundly conceived systems designed for early operations.

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WHAT ABOUT THE E SYSTEMS

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E-1

history of ARPA's connection with this program Most of us know the One part of this resulted in equent need to smuggle, in the 6 inch lense with together with the conditions devever new priorities would seem Ma important to fly E-1 as soon as possible. In order to maximize chances of success F-1 should either be removed, excised, disconnected or otherwise rendered impedient. I say this despite any possible assurance, I might receive that operation of F-1 would not affect the operation of either one. It just ain't sold! The next step that should be taken is for Eastman Kodak to pick an average focus and an average image motion compensation setting, lock the controls, throw away the key and indulge in a minimum of conversation with the machine if it gets on orbit. A small success will breed a NEXXXX large confidence and a large confidence will in turn breed a still larger success. I'd be very happy to see 20 or 30 or 40 lambed to orb to orbital photography, while surjer and I'm willing to wait a little for a hundred launched per mix millimeter (our private from the yeld supt It is that we will TE well all have to wait a long time for a hundred lines per millimeter made a ling time apole repeated at Original suggestions are entirely apart from a long time previous suggestion, the exa which I don't seem to have in hand: taking out the miserable strip camera from the E with its oursbutter. series satellite payload and replacing it with a 70 mm frame camera, The reason why I keep mentioning the P-220 camera is that this camera or one just like it (the P-2) has Ratos scionny successfully taken close to one hundred lines per millimeter from airplanes. It has requisite shutter speed which will permit ignoring IMC or paying little attention to it. and with this camera alternate film might be used. This point is explained at length in Further it is not now obvious to me that my B-166 a copy of which Colonel King has. the stabilization system which winds up working in the E systems will have the same set of specifications and tight tolerances and small angular motions and rates that the original systems contemplated for the E payloads had. If this is the case (then it always turns out this way) then this forces even closer attention to the problem of minimizing

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exposure time, which simply cannot be done with the strip camera. I would personally like to see E-1 fly before E-2. If it works the other way we may never find out that E-1 photography may be quite useful and if we don't find it out there is never a chance of nure of. WING Taking the step; necessary for securing this type of photography.

E-2

flyths, scheduled Because there are more E-2 flights scheduled than E-1 the remarks I made immediately above about locking controls on focus and image motion compensation are even more pertinent for E-2. Modest success is essential and upon modest success rapid progress can be made This is a cumbersome way of saying that 20 or 30 millimeter pos E-2 would really be X terrific, would be something that could be widely shown, would where there is modest interest now there would be much greater interest MX in this kind of activity. Next re-come to

<u>E-5</u>

To the many people who are as familiar Now we come to a hard look at the E-5 system. they are allowed to and as with the SAMOS system as they can possibly get it seems incredible that the recovery being assigned number 1 priority, the first recovery program in the system is E-5. Let me summarize my feelings about E-5.

E-5 is a complex, intrigate, heavy, advanced, sophisticated, elegant, piece of machinery which within the recovery program and possible systems that could be used for recovery, 19 is as complicatedy complex, as the E-2 system and subject to the same, recovery, / setellite E-5 is the direct result of the tremendous improvements in the resolution made entirely at the verbal and specification level in recent years. I refer of course to the fact that people soon got tired of writing and listening to 100 feet ground resolutions (before ever having obtained //soon started dwelling exclusively upon 20 foot ground

resolution (and of course haven't gotten this yet either) and soon were forced to make formatter made the trapage level). E-5 carries such a massive payload of film, requires such a long life for Uf y nivel operation, such a fantastic recovery operation that an overall subjust of the entire system as being really way out is enescapeable. The only analogy that I can draw is the except now the far is full of speces old one of the kid caught with his hand in a cookie jar He won't let go of those delicious specs and he can't get operational because he insists on hanging on to the specs. It is not enough to say that this is a high risk program, because this statement is very much like all statements INXINXI involving calculated risks for which calculations are usually absent. If we accept the general agreement that recovery systems are more important than readout systems; that recovery systems must be made to work we cannot acoud Being ariticized for starting with system the E-5. We are not suggesting that this program be cancelled or any drastic ature like this but that it be Cour as well as with R and D effort the recovery operation itself and a fairly interesting menu of alternate photographic systems. Examples of both of these suggestions and recommendations will he follow subsequently.

SURVEILLANCE — The central aspect of readout systems

Central to all recent discussions of SAMOS have been evaluations of readout thouselesduction to versus recovery. It has been indicated in this letter there can be no argument that recovery techniques can deliver volumes of data which outweigh and outnumber $m{\ll}$ that mx obtainable by readout techniques by severals orders of magnitude. calculation will make this point crystal clear. The 6 megacycles per second channel (which repuires about 3 of the SAMOS system if operated for one hour per day on readout can deliver the equivalent of a roll of film which (variously estimated) is of the order of 20 to 30 feet long by 70 millimeters wide with information typed on it and 100 lines per It is not unreasonable to postulate an eventual recovery capability which could deliver 10,000 feet of 18 inch wide film or equivalent at nearly the same resolution. Relative amounts of information delivered is simply the ratio of the areas of film And for the more or less extreme example I chose this ratio is 4500. What this says is that a readout system would have to operate for 4500 days to readout this quantity of information which could be stored on a 10,00 foot roll of 18 inch film. Mow this calculation is not entirely fair for I haven't said how long it takes to get the 10,000 feet of film. This may be several days or may be 8 camera format a month coming p focal length I happen to choose. The example is meant to be illustrative only, and whether right or wrong in small details is certainly correct and overwhelmingly so insofar as the major point it conveys, Defaulting as they do to the recovery systems when it comes to collecting huge quantities of data, Readout & find advantage systems have been forced to take refuge in tenu es arguments about surveillance. Let's look at these briefly.

Warning of minence of attack has always been a high priority problem. Because of this fact and because of some (mistaken) beliefs that the E-2 system and systems like it could contribute by to the solution or solve the warning problem, they have

been so advertised. A couple of years ago I pointed out to those advocates of this particular and privileged point of view that when some truly sophisticated people who also were high in the organization of the pentagon would get a very close look at this argument and realize its fallacious character that serious consequences might follow (such as cancellation). Such mutterings have been heard and continue to be heard. It does not follow of course, that because a satellite is on orbit continuously it can look at points at a very close time mesh. The classic solution to this problem is to simply order more satellites and then order a giant computer to handle and sort and allocate problems to these satellites. This solution can (rday infuriate, exasperate, smbitter, and aggravate the feelings of those who havek doubts about readout altogether. Simply put, some people might say, look we don't even know how good one of these is and yet you tell us we have to have dozens of them. Are there then no problems for which readout is pecularily adapted? Of course there are problems for which readout is adapted. We can approach a consideration of this problem as follows.

Suppose the Soviets go to a mobile missile system of whatever variety. While it is not at all clear that any particular surveillance system we have within our INNEXAMENTAL to design and operate can "solve" this problem, it seems fairly evident to me that a slow paced recovery system operating with 100 per cent coverage twoce a year (or on some similar cycle) will completely foreclose our ability to solve this problem. There are many other such the only experience that I know of which the United States has with surveillance has to do with front line cover under combat situations, an analogy which is at best imperfect and at worst irrelevant for the kind of peacetime surveillance over huge lamned purposes we are herein considering. These experiences enjoyed areas and for the with old combat Alll hands are ancient; they are as remote from the present and immediate future as well as experiences from World War II. What is important it seems to me is that we use precisely this argument-that of open mindedness of realization of our problems which we

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of course this means that surveillance efforts must be restricted to an appropriate R and D level. That as we learn the technology and the value of surveillance we can indeed see where to go from there. There must be an intensive research effort to identify these problems which operate an existence time cycles of a day, several days a week, a month, and so on.

And which have observable components. Perhaps this can best be done by simulation or by direct test in the United States. The dilemma which you face to believe the considerations just stated is finding a method which lets you get a little surveillance and then arguing that a little surveillance is a hell of a lot better than none at all.

Star reace What about REGGE satellites and warning? There is no denying that the output of ECKE satellites of whatever type might well contribute for an understanding of the warning problem. It is extraordinarily difficult to find people well informed in this business who take other than extremely dim viewsof the kind of standard patter one finds in briefings as I noted carlier about RECOR satellites and what they are going to see at missile bases, etc. lie make them med that these discussions as noted certier tend to exacerbate knowledgeable people, no other reason they should be discontinued. As a burely novel point let me bring up something which I suggested several years ago - the orbital six-shooter. RECOVERY obvious that readout systems have to operate in a mode radically different from readout systems, for example, one can think of putting up a sizeable satellite on orbit with and an amount of film not measured in the tens of thousands of feet and with an ability to respond to commands, take whatever pictures are ordered and mail these back by space mail on direct command. This of course can be done cutting of film, packaging it into a cassette the set and shooting it back. In principle at least, this kind of a recovery system meets some depocts and advantages of the readout system. It is certainly something to think about for advanced systems.

NONPHOTOGRAPHIC XXX RECONNAISSANCE AND SENSING

Although I am & cold photographic hand I have come to have some measure of respec [understanding of for nonphotographic techniques. It would seem likely that there are Certain classes of data in particular 66/1/1/ which, not requiring the fantastic bandwidth equivalent of recovery systems could well exploit and be not limited by the 6 megacycle channel It would seem clear that one could argue that available from xxx satellites. data of a very advanced nature (suitable for technical intelligence) need not be secured on a near real time basis but could afford the luxury of precision recording, recovery, and comparatively slow evaluation. After all, what advantage is there in sending back of lighting if it is going to take a few months to analyze it anyway? I WAKE raise these considerations in an almost random manner because they have not been part of recent discussions. For whatever reasons there seems there has been an almost exclusive concentration on photographic data. While this does not make me unhar is entirely fair. shafanaphie daba. an Tho

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FUTURE R AND D PROGRAMS

We have indicated earlier some of the kinds of things which might be very interesting for future R and D programs. A much better treatment of this entire area will be found in several special studies sommittee reports, which I assume you have available. Very briefly and in an attempt to make this report autonomous and readable profitable I can foresee three general areas which could probably stand examination and which liberly may prove extremely useful in the future You will note and I am therefore the while mentioning it early) that many of these ideas require that we clearly think out the Coupletely then we mile that top role of surveillance. And if we fail to think it out it will at the do such experimentation and indicate the future role of well enable us to get answers experimentally which we Afterial expanded 85 Worth With isolating separately although it really 64 an expansive surveillance effort. well & persistent continuously from the other increasing specs on resolution is the overall problem of technical intelligence. I noted elsewhere in this letter that this looks to me like an area which will be of increasing and maybe even dominating importance in the mid 60's and late 60's. It may not be entirely foolish to think about (although it is quite foolish to plan at this time for) satellites capable of yielding resolutions bound to one foot. This is likely to class fresolution being needed for technical intelligence. The technical intelligence people, &s I have noted many times, elsewhere, really don't want pictures. They want the designer, project notebooks, blueprints, lab tests, development history, and the gadget itself. However these things are seldom available. Our satellites do not have grappling hooks; Hence and to whatever extent their picture can satisfy the technical intelligence types the picture must be of high quality, Mesolutions measured in terms of 6 inches to two feet are probably indicated the this mission.

It is quite likely that we can assign this mission to some truly huge satellites which will be available in the future with orbital weights measured in terms of tens of thousands of pounds. But first we have get to learn how to take some pictures from orbit.

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The requirement for new sensor research and develop, stems from the basic limitation of the present photographic method -- we can take wonderful photographs on a clear bright day, but we can't take any through clouds or fog. We can barely take poor photos by moonlight.

Because a good part of the area of interest is under cloud a good part of the time, because the area is dark almost half the time, and because the northern areas, are dark for long continuous periods, our observational opportunities are sharply délimited.

Work should be done to make even more sensitive (faster) photographic emulsions, non-photographic (i.e., non silver halide) sensors, -- electrostatic tape, improved TV systems, and the like.

Radiation effects -- whether natural or enemy-induced may limit conventional film, and force use of other sensors.

Novel data handling techniques, which make more efficient use of available bandwidth are clearly interesting and should be pushed.

feasibility of doing some kind of high resolution radar work from reconnaissance

All Masses at a considerable and the other hand the argument for radary for infrared, hinges on requirements for seeing through bad weather, from seeing at night or under conditions from which photography (or television) won't work. Here we come deeply and firmly back coulcal to the problem of surveillance; until and unless we are firmly convinced that we understand surveillance; that this mission is important there would seem to be no point in urging his programs to achieve these capabilities. On the other hand there added a considerable point in making a bet that such characteristics will eventually be useful, and that studies leading to design choices are of interest should be provided.

In new sensor R&D. There follow under a separate heady:

BOMB DAMAGE ASSESSMENT and WSPECTION

A widely ignored but likely extremely important reconnaissance task is that of bomb damage assessment. It would seem almost intuitively clear that some kind of more number or less fast cycling in time delay readout system would be far more administrate for this purpose than would a recovery system. Although it is also clear that the latter could be used ax in some fashion for this purpose. Further, holody I am sure has thought out carefully matchy have reconnaissance satellites could be used in support of inspection it is also true that next much much work weeds to dime. activities, It also could be argued in principal that readout satellites launched fairly infrequently might serve a more useful function for spot checking and discovery of new defailed things requiring inspection than could recovery systems.

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